

# Timeline and Jobs To Do...

## May

- (Joe) Disconnect and remove PEPPo
- (All) Finalize target ladder configuration => \$\$\$

## June

- (Joe) Mott alignment
  - Remove target ladder for calibration on cross + build final target configuration
  - Attempt in-situ measurement of collimator (Z and aperture positions)
    - ✓ Success => keep chamber under vacuum
    - ✓ Failure => big job, remove chamber to lab for alignment
- (Riad/Marty) – Detector and DAQ checkout
  - Test new HVPS controls
  - Calibration detectors w/ source
  - Start running DAQ
  - Consider a non-competing collimator acceptance => \$\$\$
- (Charlie) Final specs on OTR camera due => \$\$\$
- (Joe) – fyi: will be on vacation June 8-24

## July

- (Riad) Start : DAQ @ 5kHz event rate
- (Joe) Complete Mott alignment tasks (collimators and target ladder)
- (Joe/Charlie) Finalize dump design, start fabrication w/ ENG => \$\$\$
- (Marty/Allena) Geant4 detector response simulations complete

## August

- (All) Final re-assemblies and tests (vacuum, alignment, detector, DAQ)
- (Riad) End : DAQ @ 5kHz event rate
- (All) Draft commissioning & run plan completed

## September

- (All) Contingency for tunnel work
- (Marty/Allena) Geant4 polarimeter run simulation complete

## October

- Earliest we can start running looks to be Oct 5<sup>th</sup>

# Final target ladder configuration (proposal) ...

- ❑ (1) thru hole – background studies
- ❑ (2) alignment viewers – eliminate “chip” replace w/ viewers at top & bottom of ladder
- ❑ (10) Gold targets for foil thickness calibration
  - 0.050  $\mu\text{m}$
  - 0.100  $\mu\text{m}$
  - 0.225  $\mu\text{m}$
  - 0.350  $\mu\text{m}$
  - 0.500  $\mu\text{m}$
  - 0.625  $\mu\text{m}$
  - 0.750  $\mu\text{m}$
  - 0.875  $\mu\text{m}$
  - 1.000  $\mu\text{m}$
  - 5.000  $\mu\text{m}$
- ❑ (1) 1  $\mu\text{m}$  Au calibration target for another ladder
- ❑ (2) non-gold targets for Z calibration
  - 1.000  $\mu\text{m}$  Ag
  - 1.000  $\mu\text{m}$  Cu

## Things to do:

- Find or buy 6 foils
- Adapt or make ladder w/ same thru holes
- Adapt or make 2 alignment viewers

